



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Sue FENG et al.) Group Art Unit: 1615
Application No.: 10/699,780) Examiner: Jyothsna A. VENKAT
Filed: November 4, 2003)
For: METHODS OF DISPERSING AT LEAST) Confirmation No.: 5902
ONE COLORING AGENT USING AT)
LEAST ONE HETEROPOLYMER)

EXHIBIT A

International Cosmetic Ingredient Dictionary and Handbook, 10th Ed. (2004)

Pages 657-658 and 3583

International Cosmetic Ingredient Dictionary and Handbook

**Tenth Edition
2004**

Editors

Tara E. Gottschalck
Gerald N. McEwen, Jr., Ph.D., J.D.

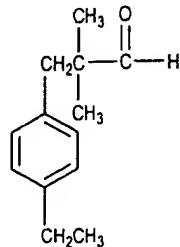
Volume 1

Published by

The Cosmetic, Toiletry, and Fragrance Association
1101 17th Street, NW, Suite 300
Washington, D.C. 20036-4702
www.ctfa.org

Ethylenediamine/Stearyl Dimer Tallate Copolymer

Definition: Ethyl 2,2-Dimethylhydrocinnamal is the aromatic aldehyde that conforms generally to the formula:



Information Source: RIFM

Chemical Class: Aldehydes

Function: Fragrance Ingredient

Technical/Other Names:

alpha,alpha-Dimethyl-p-ethylphenylpropanal (RIFM)
 α,α -Dimethyl-p-ethylphenylpropanal
 3-(p-Ethylphenyl)-2,2-Dimethylpropionaldehyde

Trade Name:

Floralozone (International Flavors & Fragrances)

ETHYLENE/ACRYLIC ACID COPOLYMER

CAS No.: 9010-77-9

Definition: Ethylene/Acrylic Acid Copolymer is a copolymer of ethylene and acrylic acid monomers.

Information Sources: 21CFR177.1310, 21CFR178.1005, CIR: [SQ] IJT 21(SUPPL. 3) 2002

Chemical Class: Synthetic Polymers

Functions: Binder; Film Former; Viscosity Increasing Agent - Nonaqueous

Technical/Other Name:

2-Propenoic Acid with Ethene

Trade Names:

A-C Copolymer 540 (Honeywell)
 A-C Copolymer 580 (Honeywell)
 A-C Copolymer 540A (Honeywell)
 AEC Ethylene/Acrylic Acid Copolymer (A & E Connock)
 EA-209 (Kobo)

ETHYLENE/ACRYLIC ACID/VA COPOLYMER

CAS No.: 26713-18-8

Definition: Ethylene/Acrylic Acid/VA Copolymer is a copolymer of ethylene, acrylic acid and vinyl acetate monomers.

Information Source: CIR: [SQ] IJT 21 (SUPPL. 3) 2002

Chemical Class: Synthetic Polymers

Functions: Binder; Film Former; Viscosity Increasing Agent - Nonaqueous

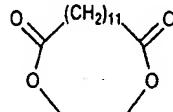
Technical/Other Name:
 2-Propenoic Acid, Polymer with Ethene and Ethenyl Acetate

ETHYLENE BRASSYLATE

CAS No. 105-95-3 **EINECS No.** 203-347-8

Empirical Formula:
 $C_{15}H_{26}O_4$

Definition: Ethylene Brassylate is the cyclic ester that conforms to the formula:



Information Sources: 21CFR172.515, RIFM, TSCA

Chemical Class: Esters

Function: Fragrance Ingredient

Reported Product Categories: Foundations; Moisturizing Preparations; Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Personal Cleanliness Products, Misc.

Technical/Other Names:

1,4-Dioxacycloheptadecane-5,17-dione
 Ethylene brassylate (RIFM)
 Ethylene Undecane Dicarboxylate

Trade Name:

AEC Ethylene Brassylate (A & E Connock)

ETHYLENE/CALCIUM ACRYLATE COPOLYMER

CAS No.: 26445-96-5

Empirical Formula:
 $(C_3H_4O_2 \cdot C_2H_4)_x \cdot xCa$

Definition: Ethylene/Calcium Acrylate Copolymer is a copolymer of ethylene and calcium acrylate monomers.

Information Sources: 21CFR175.105, CIR: [SQ] IJT 21(SUPPL. 3) 2002

Chemical Class: Synthetic Polymers

Functions: Binder; Film Former

Technical/Other Name:
 2-Propenoic Acid, Polymer with Ethene, Calcium Salt

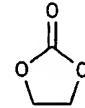
ETHYLENE CARBONATE

CAS No. 96-49-1 **EINECS No.** 202-510-0

JPN Translation:
 炭酸エチレン

Empirical Formula:
 $C_3H_4O_3$

Definition: Ethylene Carbonate is the organic compound that conforms to the formula:



Information Sources: JCIC, JCLS

Chemical Class: Esters

Function: Solvent

Technical/Other Name:
 1,3-Dioxolan-2-one

ETHYLEDIAMIINE/DIMER TALLATE COPOLYMER BIS-HYDROGENATED TALLOW AMIDE

Definition: Ethylenediamine/Dimer Tallate Copolymer Bis-Hydrogenated Tallow Amide is a copolymer of ethylenediamine and tall oil dimer acid monomers, end-blocked with Hydrogenated Tallowamine (q.v.).

Chemical Class: Synthetic Polymers

Functions: Oral Care Agent; Skin-Conditioning Agent - Miscellaneous; Viscosity Increasing Agent - Nonaqueous

Technical/Other Name:
 Sylvaclear A200

ETHYLEDIAMIINE/STEARYL DIMER DILINOLEATE COPOLYMER

Definition: Ethylenediamine/Stearyl Dimer Dilinoleate Copolymer is a copolymer of ethylenediamine and Dilinoleic Acid (q.v.) monomers, end-blocked with stearyl alcohol.

Chemical Class: Synthetic Polymers

Functions: Oral Care Agent; Skin-Conditioning Agent - Miscellaneous; Viscosity Increasing Agent - Nonaqueous

Trade Name:
 UNICLEAR (Arizona)

ETHYLEDIAMIINE/STEARYL DIMER TALLATE COPOLYMER

Definition: Ethylenediamine/Stearyl Dimer Tallate Copolymer is a copolymer of ethyl-

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Ethylenediamine/Stearyl Dimer Tallate Copolymer (Cont.)

enediamine and tall oil dimer acid monomers, end-blocked with stearyl alcohol.

Chemical Class: Synthetic Polymers

Functions: Oral Care Agent; Skin-Conditioning Agent - Miscellaneous; Viscosity Increasing Agent - Nonaqueous

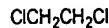
Trade Name:
UNICLEAR (Arizona)

ETHYLENE DICHLORIDE

CAS Nos. EINECS Nos.
107-06-2 203-458-1
1300-21-6 215-077-8

Empirical Formula:
 $\text{C}_2\text{H}_4\text{Cl}_2$

Definition: Ethylene Dichloride is the halogenated aliphatic hydrocarbon that conforms to the formula:



Information Sources: 21CFR165.110, 21CFR172.560, 21CFR172.710, 21CFR172.864, 21CFR173.165, 21CFR173.230, 21CFR173.315, 21CFR175.105, 21CFR573.440, EEC(II-125), FCC, MI-13(3831), TSCA

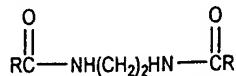
Chemical Class: Halogen Compounds

Function: Not Reported

Technical/Other Names:
Dichloroethane
Ethane, 1,2-Dichloro-

ETHYLENE DIHYDROGENATED TALLOW-AMIDE

Definition: Ethylene Dihydrogenated Tallowamide is the diamide that conforms generally to the formula:



where RCO- represents the fatty acids derived from hydrogenated tallow.

Chemical Class: Amides

Function: Viscosity Increasing Agent - Nonaqueous

Technical/Other Names:
N,N'-1,2-Ethanediylbis(Hydrogenated Tallowamide)
(Hydrogenated Tallowamide), N,N'-1,2-Ethanediylbis-

ETHYLENE DILINOLEAMIDE

Definition: Ethylene Dilinoleamide is the condensation product of ethylenediamine with Dilinoleic Acid (q.v.).

Information Sources: JCIC, JCLS

Chemical Class: Amides

Function: Skin-Conditioning Agent - Miscellaneous

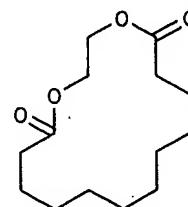
Technical/Other Name:
Condensate of Dilinoleic Acid and Ethylenediamine

ETHYLENE DODECANEDIOATE

CAS No. EINECS No.
54982-83-1 259-423-6

Empirical Formula:
 $\text{C}_{14}\text{H}_{24}\text{O}_4$

Definition: Ethylene Dodecanedioate is the organic compound that conforms to the formula:



Information Source: RIFM

Chemical Classes: Esters; Heterocyclic Compounds

Function: Fragrance Ingredient

Technical/Other Names:
Cyclic Ethylene Dodecanedioate
1,4-Dioxacyclohexadecane-5,16-Dione
Ethylene dodecanedioate (RIFM)
Musk C-14

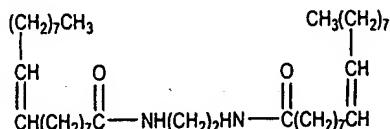
Trade Name:
Zenolide (International Flavors)

ETHYLENE DIOLEAMIDE

CAS No. EINECS No.
110-31-6 203-756-1

Empirical Formula:
 $\text{C}_{38}\text{H}_{72}\text{N}_2\text{O}_2$

Definition: Ethylene Dioleamide is the diamide that conforms generally to the formula:



Information Sources: 21CFR175.300, TSCA

Chemical Class: Amides

Function: Viscosity Increasing Agent - Nonaqueous

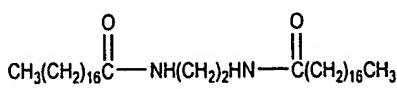
Technical/Other Names:
N,N'-1,2-Ethanediylbis-9-Octadecenamide
9-Octadecenamide, N,N'-1,2-Ethanediylbis-

ETHYLENE DISTEARAMIDE

CAS No. EINECS No.
110-30-5 203-755-6

Empirical Formula:
 $\text{C}_{38}\text{H}_{76}\text{N}_2\text{O}_2$

Definition: Ethylene Distearamide is the diamide that conforms to the formula:



Information Source: TSCA

Chemical Class: Amides

Function: Viscosity Increasing Agent - Nonaqueous

Technical/Other Names:
N,N'-1,2-Ethanediylbisoctadecanamide
N,N'-Ethylene Bisstearamide
Octadecanamide, N,N'-1,2-Ethanediylbis-

Trade Name:
Lipowax C (Lipo)

ETHYLENE/MA COPOLYMER

CAS No.: 9006-26-2

JPN Translation:
(エチレン / マレイン酸) コポリマー

Definition: Ethylene/MA Copolymer is a polymer of ethylene and maleic anhydride monomers.

Information Sources: 21CFR175.105, 21CFR177.1210, 21CFR177.1520, JCIC, JCLS, TSCA

Chemical Class: Synthetic Polymers

Functions: Binder; Film Former; Suspending Agent - Nonsurfactant

Technical/Other Names:
Ethylene/Maleic Anhydride Copolymer
2,5-Furandione, Polymer with Ethene

ETHYLENE/MAGNESIUM ACRYLATE COPOLYMER

CAS No.: 27515-37-3

Empirical Formula:
 $(\text{C}_3\text{H}_4\text{O}_2 \cdot \text{C}_2\text{H}_4)_x \cdot x\text{Mg}$

Definition: Ethylene/Magnesium Acrylate Copolymer is a copolymer of ethylene and magnesium acrylate monomers.

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**Tenth Edition
2004**

Editors

Tara E. Gottschalck
Gerald N. McEwen, Jr., Ph.D., J.D.

Volume 4

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Washington, D.C. 20036-4702
www.ctfa.org

Technical/Trade Name	INCI Name	Technical/Trade Name	INCI Name
Unibetaine K (Universal Preserv-A-Chem)	Cocamidopropyl Betaine	Unichem SS (Universal Preserv-A-Chem)	Sodium Stearate
Unibetaine LB (Universal Preserv-A-Chem)	Lauryl Betaine	Unichem THYMOL (Universal Preserv-A-Chem)	Thymol
Unibetaine OLB-50 (Universal Preserv-A-Chem)	Oleyl Betaine	Unichem TIPA (Universal Preserv-A-Chem)	Triisopropanolamine
Unibiovit B-33 (Induchem)	Decyl Oleate (and) Farnesol (and) Ethyl Linoleate (and) Farnesyl Acetate	Unichem ZO (Universal Preserv-A-Chem)	Zinc Oxide
Unibiovit B-332 watersoluble (Induchem)	PEG-12 Glyceryl Laurate (and) PEG-36 Castor Oil (and) Farnesol (and) Ethyl Linoleate (and) Farnesyl Acetate	Unichem ZPS (Universal Preserv-A-Chem)	Zinc Phenolsulfonate
Unibiovit B-332 WS (Lipo)	PEG-12 Glyceryl Laurate (and) PEG-36 Castor Oil (and) Farnesol (and) Ethyl Linoleate (and) Farnesyl Acetate	Unichem ZS (Universal Preserv-A-Chem)	Zinc Stearate
Unicast-CO (Universal Preserv-A-Chem)	Ricinus Communis (Castor) Seed Oil	Unichol (Universal Preserv-A-Chem)	Cholesterol
Unicerin C-30 (Induchem)	Lactose (and) Cellulose (and) Sericin (and) Hydroxypropyl Methylcellulose (and) Iron Oxides	Unichondrin ATP (Induchem)	Butylene Glycol (and) Hydrolyzed Vegetable Protein (and) Adenosine Triphosphate (and) Sodium Chondroitin Sulfate
Unichem ALSUL (Universal Preserv-A-Chem)	Aluminum Sulfate	Unicid 425 Acid (Baker Petrolite)	C20-40 Acid (and) Polyethylene
Unichem AMAL (Universal Preserv-A-Chem)	Ammonium Alum	Unicid 700 Acid (Baker Petrolite)	C40-60 Acid (and) Polyethylene
Unichem BICARB-S (Universal Preserv-A-Chem)	Sodium Bicarbonate	Unicide U-13 (Induchem)	Imidazolidinyl Urea
Unichem CALCARB (Universal Preserv-A-Chem)	Calcium Carbonate	UNICLEAR (Arizona)	Ethylenediamine/Stearyl Dimer Dilinoleate Copolymer (or) Ethylenediamine/Stearyl Dimer Tallate Copolymer
Unichem CALCHLOR (Universal Preserv-A-Chem)	Calcium Chloride	Unicol 50 (Universal Preserv-A-Chem)	Benzalkonium Chloride
Unichem CS (Universal Preserv-A-Chem)	Calcium Stearate	Unicol 123 (Universal Preserv-A-Chem)	Cetearyl Alcohol (and) Steareth-10
Unichem DIPA (Universal Preserv-A-Chem)	Diisopropanolamine	Unicol 1200 (Universal Preserv-A-Chem)	PPG-20
Unichem KI (Universal Preserv-A-Chem)	Potassium Iodide	Unicol CA-2 (Universal Preserv-A-Chem)	Ceteth-2
Unichem LACA (Universal Preserv-A-Chem)	Lactic Acid	Unicol CA-4 (Universal Preserv-A-Chem)	Ceteth-4
Unichem MC (Universal Preserv-A-Chem)	Magnesium Carbonate	Unicol CA-10 (Universal Preserv-A-Chem)	Ceteth-10
Unichem MENT (Universal Preserv-A-Chem)	Menthol	Unicol CPS (Universal Preserv-A-Chem)	Cetearyl Alcohol (and) PEG-150 Stearate (and) Steareth-20
Unichem METSAL (Universal Preserv-A-Chem)	Methyl Salicylate	Unicol CSA-2 (Universal Preserv-A-Chem)	Ceteareth-2
Unichem MS (Universal Preserv-A-Chem)	Magnesium Stearate	Unicol CSA-5 (Universal Preserv-A-Chem)	Ceteareth-5
Unichem PBA (Universal Preserv-A-Chem)	Lead Acetate	Unicol CSA-10 (Universal Preserv-A-Chem)	Ceteareth-10
Unichem POCARB (Universal Preserv-A-Chem)	Potassium Carbonate	Unicol CSA-15 (Universal Preserv-A-Chem)	Ceteareth-15
Unichem POCHLOR (Universal Preserv-A-Chem)	Potassium Chloride	Unicol CSA-20 (Universal Preserv-A-Chem)	Ceteareth-20
Unichem POHYD (Universal Preserv-A-Chem)	Potassium Hydroxide	Unicol CSA-40 (Universal Preserv-A-Chem)	Ceteareth-40
Unichem RSC (Universal Preserv-A-Chem)	Resorcinol	Unicol LA-4 (Universal Preserv-A-Chem)	Laureth-4
Unichem SALAC (Universal Preserv-A-Chem)	Salicylic Acid	Unicol LA-9 (Universal Preserv-A-Chem)	Laureth-9
Unichem SOHYD (Universal Preserv-A-Chem)	Sodium Hydroxide	Unicol LA-12 (Universal Preserv-A-Chem)	Disodium Lauroampho-dipropionate
		Unicol LA-23 (Universal Preserv-A-Chem)	Laureth-23
		Unicol NP-2 (Universal Preserv-A-Chem)	Nonoxynol-2

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Sue FENG et al.) Group Art Unit: 1615
Application No.: 10/699,780) Examiner: Jyothsna A. VENKAT
Filed: November 4, 2003)
For: METHODS OF DISPERSING AT LEAST) Confirmation No.: 5902
ONE COLORING AGENT USING AT)
LEAST ONE HETEROPOLYMER)

EXHIBIT B

Redacted Proprietary Documents

Identification

REDACTED

Nom Chimique : CONDENSAT DIACIDE EN C36 HYDROGENE/ETHYLENE DIAMINE, ESTERIFIE PAR
ALCOOL STEARYLIQUE

Nom CTFA :

REDACTED

Références commerciales

Références commerciales	Fournisseurs
UNICLEAR 100 V	REDACTED

REDACTED

REDACTED

Numéro de CAS	Nom CTFA substance	Nom européen substance	% sub.	Rôle	Type	Color index	% étiqu.	N° éinecs
REDACTED	ETHYLEDIAMINE/TALL OIL DIMER ACID/STEARYL ALCOHOL COPOLYMER	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

REDACTED

05/07/2000

REDACTED

Identification.

REDACTED

Code R.A.D:

Code demandé le : 13/07/00

Code créé le: REDACTED

Code attribué le : 07/11/00

Réf. Commerciale

Fabricant / Distributeur

UNICLEAR 100 VG

REDACTED

(DGT) UNICLEAR 100 VG

Nom chimique R.A.D : CONDENSAT DIACIDE EN C38 HYDROGENÉ/ETHYLENE DIAMINE, ESTERIFIÉ PAR
ALCOOL STEARYLIQUE (PM: ENVIRON 4000) STABILISÉ (ANOX 20)

Nom INCI USA : ETHYLENEDIAMINE STEARYL DIMER DILINOLEATE COPOLYMER

REDACTED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Sue FENG et al.) Group Art Unit: 1615
Application No.: 10/699,780) Examiner: Jyothsna A. VENKAT
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ONE COLORING AGENT USING AT)
LEAST ONE HETEROPOLYMER)

EXHIBIT C

Copies of Claims from Co-Pending Applications